

Fig. 1

SQ SEQUENCE 267 AA; 30778 MW; 1A28B8366E620310 CRC64;

MKAAVLTIAV LFLTGSQARH FWQQDEPPQS PWDRVKDLAT VYVDVLKDSG RDYVSQFEGS

ALGKQLNLKL LDNWDSVTST FSKLREQ LGP VTQEFWDNLE KETEGLRQEM SKDLLEEVKAK

VQPYLDDFQK KWQEEMELYR QKVEPLRAEL QEGARQKLHE LQEKLSPLGE EMRDRARAHV

DALRTHLAPY SDELQRQLAA RLEALKENG ARLAEYHAKA TEHLSTLSEK AKPALEDLRQ

GLLPVLESFK VSFLSALLEY TKKLNTQ

HUMAN
Macaque
Bovine
Pig
Dog
Rabbit
Tree shrew
Mouse
Rat
Eur. Hedgehog
Chicken
Jap. quail
Domestic duck
Rainbow trout
Brown trout
Atl. salmon
Zebrafish
Sea bream

MKA AVLTLAVLFLTGSQARHFWQQDEPPQSPWDRVKDLATVYVDVLKDSGRDYVSQFEGS
MKATVTLTAVLFLTGSQARHFWQQDEPPQTPWDRVKDLVTVYVEALKDSGKDYVSQFEGS
MKA VVLTAVLFLTGSQARHFWQQDDP-QSSWDRVKDFATVYVEAIKDSGRDYVAQFEAS
MKA VVLTAVLFLTGSQARHFWQQDDP-QSPWDRVKDFATVYVDIAIKDSGRDYVAQFEAS
MKAALLTLAVLFLTGSQARHFWQQDEP-QSPWDRVKDLATVYVDAVKDSGRDYVAQFEAS
MKA VVLTAVLFLTGSQARHFWQRDEP-RSSWDKI KDFATVYVDTVKDSGREYVAQFEAS
MKA VVLTAVLFLTGSQARHFWQQDEP-QSSWDRVRLANVYVDAVKESGREYVSQLEAS
MKA VVLAVALVFLTGSQAWHVWQQDEP-QSQWDKVKDFANVYVDAVKDSGRDYVSQFESS
MKA VLAVALVFLTGSQAWFEWQQDEP-QSQWDRVKDFATVYVDAVKDSGRDYVSQFESS
-----DEA-KSYWDQIKDMLTVYVDTAKDSGKDYLTSLDTS
MRGVLTAVLFLTGTQARSFWQHDEP-QTPLDRIDRMVDVYLETVKASGKDAIAQFESS
MRGVLTAVLFLTGTQARSFWQHDDP-QTPLDRIDRLMDVYLETVKASGKDAISQFESS
MRVVVTLALLFLTGTQARYFWHDEP-QAPLDRILRLDVYLETVKASGKDAIAQFEAS
MKFLALALTILLAAGTQAFP-MQADAP--SQLEHVKAALSMYIAQVKLTAKRSIDLDDT
MKFLALALTILLAATQAVP-MQADAP--SQLEHVKVAMMEYMAQVKETGQRSIDLDDT
MKFLVLAALTILLAAGTQAFP-MQADAP--SQLEHVKAALNMYIAQVKLTAKRSIDLDDT
MKFVALALTILLALLGSQANL-FQADAP--SQLEHVKAALVYLNQVKDAQEAKALDNLDDT
MKFAALALTILLAVGSHAAS-MQADAP--SOIDHARAVI.DVVI.TOVKDMST.RAVNO.DD

* : : : * * : : :

HUMAN
Macaque
Bovine
Pig
Dog
Rabbit
Tree shrew
Mouse
Rat
Eur. Hedgehog
Chicken
Jap. quail
Domestic duck
Rainbow trout
Brown trout
Atl. salmon
Zebrafish
Sea bream

ALGKQLNLKLLDNWDSVTSTFSKLRQLGPVTQEFWDNLEKETEGLRQEMSKDLEEVKAK
ALGKQLNLKLLDNWDSVTSTVSKLRQLGPVTQEFWDNLEKETEGLRQEMSKDLEEVKAK
ALGKQLNLKLLDNWDTLASTLSKVRQLGPVTQEFWDNLEKETASLRQEMHKDLEEVKQK
ALGKHLNLKLLDNWDSLSGSTFTKVRQLGPVTQEFWDNLEKETEARLQEMSKDLEEVKKK
ALGKQLNLKLLDNWDSLSSTVTKLRQLGPVTQEFWDNLEKETEVLRQEMSKDLEEVKQK
AFGKQLNLKLLDNWDSLSSTVSKLQELGPVTQEFWDNLEKETEGLRREEMNKDLQEVQRK
ALGKQLNLKLVDNWDTLGSTFQKVHEHLGPVAQEFWEKLEKETEELRREINKDLEDVRQK
SLGQQLNLNLLLNWDTLGSTVQLQERLGLPTRDFWDNLEKETDWRQEMNKDLEEVKQK
TLGKQLNLNLNWDTLGSTVGRQLQELGPVTQEFWANLEKETDWLRNEMNKDLNVKQK
ALGQQLNKLLADNWDTVSSALLKAREQMKIAMEFWGNLEKETEGLRQTVSKDLELVKEK
AVGKQLDLKLADNLDTLASAAAKLREDMAPYYKEVREMWLKDTEALRAELTKDLEEVKEK
AVGKQLDLKLADNLDTLASAAAKLREDMTPYYREVRMWLKDTEALRAELTKDLEEVKEK
AVGKQLDLKLADNLDTLGAAAKLREDMAPYYKEVREMWLKDTEALRAELTKDLEEVKEK
EY - KEYKMQLTQSLDNLQYADATSQSLAPYSEAFGTQLTDATAAVRAEVMKDVLELSQ
EF - KEYKVQLSQSLDNLQQYAQTTSQSLAPYSEAFGAQLTDAAAAVRAEVMKDVEDVRTQ
EY - KEYKQLSQSLDNLQQFADSTSKSWPPTPRSS - APSCDATATVRAEVMKDVEDVRTQ
DY - EOYKQLSESLTKLQBYAQTTSQALTPYAETISTQLMENTKQLRREVMTDVEDLRQY
Q - AEFKTNLQRAIEEMYTOKTLOGSVPMPTDSFYNTVMVETKDTESLNVDLEAKS

[illegible]

HUMAN
Macaque
Bovine
Pig
Dog
Rabbit
Tree shrew
Mouse
Rat
Eur. Hedgehog
Chicken
Jap. quail
Domestic duck
Rainbow trout
Brown trout
Atl. salmon
Zebrafish
Sea bream

VQPYLDDFQKKWQEEMELYRQKVEPLRAELQEGARQKLHELQEKLSPLGEEMRDRARAHV
VQPYLDDFQKKWQEEMELYRQKVEPLRAELHEGTRQKLHELHEKLSPLGEEVRDRARAHV
VQPYLDEFQKKWHEEVEIYRQKVAPLGEEFREGARQKVQELQDKLSPLAQELRDRARAHV
VQPYLDDFQKKWQEEMETRYQKMAPLGAEFREGARQKVQELQEKLSPLAEELRDLRLAHV
VQPYLDDFQKKWQEEVELYRQKVAPLGSLELREGARQKLQELQEKLSPLAEELRDRARTHV
VQPYLDEFQKKWQEEVERYRQKVEPLGAELRESARQKLTTELQEKLSPLAEELRDSARTHV
TQPFLLDEIQKKWQEDLERYRQKVEPLSAQLREGARQKLMELQEQTPLGEDLRDSVRAYA
VQPYLDEFQKKWQEDLVLYRQKVAPLGAELQESARQKLQELQGRRLSPVAEEFRDRMRTHV
MQPHLDEFQKKWNEEVEAYRQKLEPLGTFLHKNAAAAKEMQRHLKGVAAEEFRDRMRVNA
VQPYLDSFQKKVVEELELYRQKVAPLSAEWREQARQKAQELQKQAGVQQHRRDRVRTHV
IRPFLDQFSAKWTEELEQYRQRLTPVAQELKELTKQKVELMQAKLTPVAEEARDRLRGHV
IRPFLDQFSAKWTEEEVEYRQRLAPVAQELKDLTKQKVELMQAKLTPVAEEVRDLRLREQV
IRPFLDQFSAKWTEELEQYRQRLAPVAEELKELTKQKVELMQAKLTPVAEEARDRLRGHV
LEPKRAELKEVLDKHIDEYRKLEPLIKEHIELRRTEMAFRAKMEPIVEELRAKVAVNV
LEPKRAELKEVLDKHIDEYRKLEPLIKEIVEQRRTELEAFRVKMEPVVEEMRAKVSTNV
LEPKRAELTEVLNKHIDEYRKLEPLIKQHIELRRTEMAFAKRAKLEDPVVEEMRAKVAVNV
LEPHRAELTYLAKHIDEYRKELEPVFQYSEALNRQNAEQRAKLEPLMDIRKAFESNI
LAPONEOLKOVIEKHLNDYRTLTPYINDYKTKHDEFMAAKTRIEPVMEELPTKTOANV

* : : : : * * : * : : : : : : : : :

Fig. 2a.2

HUMAN	DALRTHLAPYSDELQRQLAARLEALKENG GARLA EYHAKATEHLSTLSEKAKPALEDLRQ
Macaque	DALRTHLAPYSDELQRQLAARLEALKENG GARLA EYHAKASEHLSTLSEKAKPALEDLRQ
Bovine	ETLRQQ LAPYSDDLQRQLTARLEALKEGGG-SLA EYHAKASEQLKALGEKAKPVLEDLRQ
Pig	EALRQH VAPYSDDLQRQMAARFEALKEGGG-SLA EYQAKAQEQLKALGEKAKPALEDLRQ
Dog	DALRAQLAPYSDDLRERLAARLEALKEGGGASLA EYHARASEQLSALGEKARPALEDLRQ
Rabbit	DTLR TKLAPYSNELQQRLAARLES IKEGGGASLA EYQAKAREHLSVLSEKARPALEDLRQ
Tree shrew	DTLR TQLAPYSEQMRKTLGARLEAIKEGG SASLA EYHAKASEQLSALGEKAKPVLEDIHQ
Mouse	DSLRTQLAPHSEQMRESLAQR LAELKSNP--TLNEYHTRAKTHLKT LG EKARPALEDLRH
Rat	DALRAKFLYSDQMRENLAQR LTERNHP--TLIEYHTKAGDHLRTLGEKAKPALDDLQ
Eur. Hedgehog	DALRTDLAPYGE EARKLLQLRLQDIKAKSG-DLA EYQTKLSEHLKSFGEKAQPTLQDLRH
Chicken	EELRKNLAPYSDELQRQLSQKLE EIREKGIPQASEYQAKVMEQLSNLREKMTPLVQEFRE
Jap. quail	EELRKNLAPYSSELQRQLSQKLE EIRERGIPOASEYQAKVVEQLSNLREKMTPLVQEFKE
Domestic duck	EELRKNLAPYSDELQRQLSQKLE EIREKGIPQAAEYQAKVVEQLSNLREKMTPLVQDFKE
Rainbow trout	EETKTKLMPIVEIVRAKLTERLEELRTLAPYAE EYKEQMIKAVGEVREKVSPLSEDFKG
Brown trout	EETKAKLMPIVETVRAKLTERLEELRTLAPYAE EYKEQMFKAVGEVREKVGPLTNDFKG
Atl. salmon	EETKTKLMPIVEIVRAKLTERLEELRTLAPYAE EYKEQMFKAVGEVREKVAPLSEDFKA
Zebrafish	EETKSKVPMVEAVRTKLTERLEDLRTMAAPYAE EYKEQLVKAVEEAREKIAPHTQDLQT
Sea bream	EETKAVLMPMVETVRTKVTTERLESREVVQPYVQEYKEQMKQMYDQA-QTVD--TDALRT
	: : . : : : : ** : : : :

HUMAN	GLLPVLESFKVSFLSALE EYTKKLNTQ
Macaque	GLLPVLESFKVSFLSALE EYTKKLSTQ
Bovine	GLLPVLES LKVSILAAIDEASKKLNAQ
Pig	GLLPVLENLKVSI LAAIDEASKKLNAQ
Dog	GLLPVLESFKVSL LAAIDEATKKLNAQ
Rabbit	GLLPVLESFKASVQNVLDEATKKLNTQ
Tree shrew	GLMPMWESFKTGVLNVIDEAAKKLTA-
Mouse	SLMPMLETLKTKAQSVIDKASETLTAQ
Rat	GLMPVLEAWKAKIMSMIDEAKKKLNA-
Eur. Hedgehog	GLEPLWEGIKAGAMSMLEELGKKLNSQ
Chicken	RLTPYAENLKNRLISFLDELQKSVA--
Jap. quail	RLTPYAENLKNRLIDL LDEVQKTMA--
Domestic duck	RLTPYAENLKTRFISLLDELQKTVA--
Rainbow trout	QVGPAAEQAKQKLLAFYETISQAMKA-
Brown trout	QVGPAAEQAKEKLMDFYETISQAMKA-
Atl. salmon	RWAPPPRRPSK--SSWLSTRPSARP--
Zebrafish	RMEPYMENVRTTFAQMYETIAKAIQA-
Sea bream	KITPLVEEIKVKMNAIF EIIAASVTKS
	* .

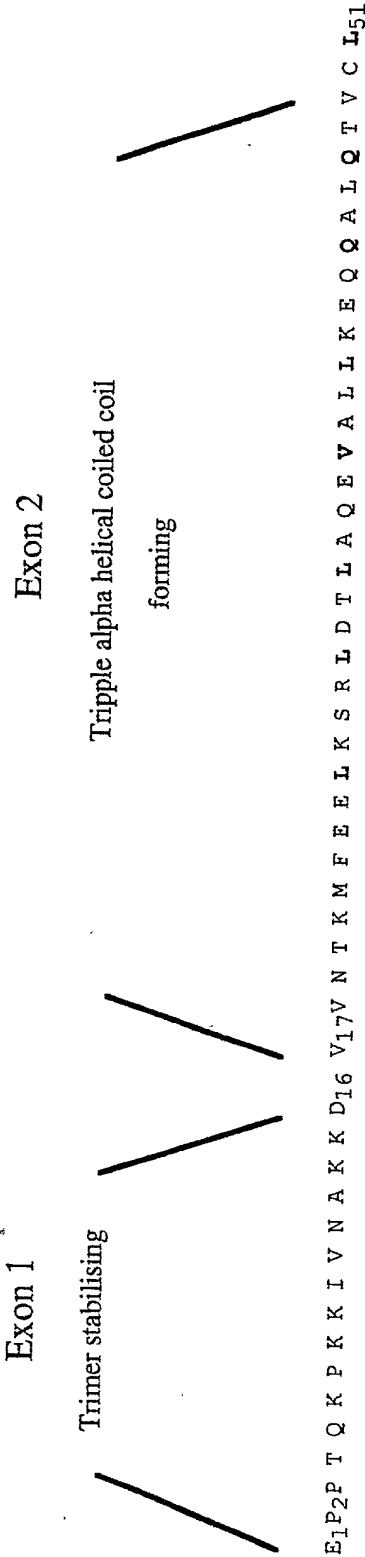
09907107.44304

Fig. 2b

[illegible]

Fig. 3

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Position	d	e	f	g	a	b	c	d	e	f	g	a	b	c	d	e	f	g	a																	
Human tetranectin	V	V	N	T	K	M	F	E	E	L	K	S	R	L	D	T	L	A	Q	E	V	A	L	L	K	E	Q	Q	A	L	Q	T	V	C	L	K
Murine tetranectin	L	V	S	S	K	M	F	E	E	L	K	N	R	M	D	V	L	A	Q	E	V	A	L	L	K	E	K	Q	A	L	Q	T	V	C	L	K
Bovine cart. protein	R	R	V	K	E	K	D	G	D	L	K	T	Q	V	E	K	L	W	R	E	V	N	A	L	K	E	M	Q	A	L	Q	T	V	C	L	R
Shark cart. protein	S	K	S	G	K	G	K	D	D	L	R	N	E	I	D	K	L	W	R	E	V	N	S	L	K	E	M	Q	A	L	Q	T	V	C	L	K
Consensus											L		hy			L		E	V						L	K	E		Q	A	L	Q	T	V	C	L

Fig. 5

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pT7 H6ubiF_x Apo A1

PBR328 - (PvuII) - GATCTCGATCCGCGAAATTAAATACGATACACTATAGGAGACCAACCGTTTCCCTCTAGAAATAATTTGTTTAACTTT

T7 promoter

AAGAAGAGATATACATATCGGATCGCATCACCATCACCGATCACAGATCTTTGTGAGACCCCTCACTGGCAAAACCATCACCCCTTG

Nde I

E V E P S D T I E N V K A K I Q D K E G I P P D Q Q R L I F A
AGTTCGAGCCCAGTGCACCATTGAGATGTCAAAGCCAAATTCAGACAGGAGGTATCCACCTGACAGCAGCGTCTGTATATTGCCG
G K Q L E D G R T L S D Y N I Q K E S T L H L V L R L R G S
GCAACAGCTGGAAGATGGAGTACTTTGTCTGACTACAATATTCAAAAGGAGTCTACTCTTCATCTTTGTGTGAGACTTCGTGGTGGATCCA

Bam HI

TCGAGGGTAGGGTGGAGatgaacccccccagagccccctgggatcgagtgaggaagacctggccactgtgtacgtggatgtgtcctcaagacagcgccagagac
I E G R G G D E P P Q S P W D R V K D L A T V Y V D V L K D S G R D
tatgtgtccagttgaaggctccgcttgggaaacacagctaaacctccttgacaaactgggacagcgtgaacctccaccttcagcaagctg
Y V S Q F E G S A L G K Q L N K L L D N W D S V T S T F S K L
cgcgaacagctcggccctgtgacccagagttcttggaataacctgggaaagagacagagggccctgagggcagagatgagcaaggatcttgaggag
R E Q L G P V T Q E F W D N L E K E T E G L R Q E M S K D L E E
gtgaaggccaaagtgacgaccttccagaaagatggcagagagatggagctctaccgcccaagaggtggagccgctgcgcgca
V K A K V Q P Y L D D F Q K K W Q E E M E L Y R Q K V E P L R A
gagctccaagagggcgccgcagagctgcacgagctgcaagagaagctgagccactgggagagagatgcgcgaccgcgcgcgccatgtg
E L Q E G A R Q K L H E L Q E K L S P L G E E M R D R A R A H V
gacgcgtgcacgcatctggccctacacgacgacgagctgcgccagcgttggccgcgccttgaggtctcctcaaggagaaagcgccgcgacaga
D A L R T H L A P Y S D E L R Q R L A R L E A L K E N G G A R
ctggccagtagtacacgccaagggccacgagcatctgacgacgctcagcgaaggaagcccgctcgcgagaccccgcccaaggccctgctgccc
L A E Y H A K A T E H L S T L S E K A K P A L E D L R Q G L L P
gtgctggagagctcaaggctcagcttctcgtgagcgtctcgtgaggtacactaagaagctcaacacccagTAAGCATGCAAGCTTGAATTCCGATCC
V L E S F K V S F L S A L E E Y T K K L N T Q STOP SphI HindIII EcoRI

GGCTGTCTAACAAAGCCCGAAAGGAGCTGAGTTGGTGGCTGCCCGCTGAGCTGAGCAATAACTAGCATAAACCCCTCTG

CCACCCGTGTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTTTGTCTGAAGGAGGAACATATATCCGAT - (EcoRV) - pBR328.

Fig. 6

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pT7 H6UbiF_x Cys-Apo A1

pBR328- (PvuII) -GATCTGATCCCGGAAATTAATACGATACACATATAGGAGAGACCACACCGTTTCCCTCTAGAAATAATTTGTTTAACITTT
T7 promoter
M G S H H H H H G S Q I F V K T L T G K T I T L
AAGAAGGAGATACATATGGATCGCATCACCATCACCATCACCATCTTTGTGAAGACCTCACCTGGCAAAACCATCACCTTGT
Nde I
E V E P S D T I E N V K A K I Q D K E G I P P D Q Q R L I F A
AGGTCGAGCCCAAGTACACCATTTGAGAAATGTCAAAGCCAAAATTCAGACAAGGAGGTATCCACCTGACACGACGCGTCTGATATTGCGG
G K Q L E D G R T L S D Y N I Q K E S T L H L V L R L R G G S
GCAACAGCTGGAAGATGACGTACTTTGTCTGACTACAAATATTCAAAAGGAGTACTTTCATCTTGTGTGAGACTTCGTGGTGGATCCA
Bam HI
TCGAGGGTAGGGTGGATGTgatgaacccccccagagccctggggtcgtgagtgaaagacactggccactgtgtacgtggatgtgctcaagacagcggcagagac
I E G R G G C D E P P Q S P W D R V K D L A T V Y V D V L K D S G R D
tatgtgtccagtttgaaggtccgcttgggaaacacagtaaaccttaagctctcttgacaaactggacagcgtgacctccaccttcagcaagctg
Y V S Q F E G S A L G K Q L N L K L D N W D S V T S T F S K L
cgcgaaacagctcgccctgtgacccagaggttctgtggataacctggaaaaggagacagagggcctgaggcagggatgagcaaggatctggaggag
R E Q L G P V T Q E F W D N L E K E T E G L R Q E M S K D L E E
gtgaaggccaaagtgagccctacctggagcactccagaagaagtggcagggagatggagctctaccgccagaaggtggagcgtgcgcgca
V K A K V Q P Y L D D F Q K K W Q E E M E L Y R Q K V E P L R A
gagctccaagaggcgccagaaagctgcacgagctgcaagagaagctgagccactgggagagatgcgcgacccgcgcgcgcgcctatgtg
E L Q E G A R Q K L H E L Q E K L S P L G E E M R D R A R A H V
gacgctgcgcacgcatctggccctacagcagcagctgcgcagcgttggccgcgcgccttgaggctctcagggagagaaacggcgccccaga
D A L R T H L A P Y S D E L R Q R L A A R L E A L K E N G G A R
ctggccgagtagtaccagccaaggccaccgagcatctgagcacgctcagcagaaggccaaagcccgctcgaggacctccgccaaggcctgctgccc
L A E Y H A K A T E H L S T L S E K A K P A L E D L R Q G L L P
gtgctggagagcttcaaggtcagcttccctgagcgtctctcgaggagtagactaagaagctcaacacccagTAAGCATGCAAGCTTGAATTCGATCC
V L E S F K V S F L S A L E E Y T K K L N T Q STOP SphI HindIII EcoRI

GGCTGCTAACAAAGCCCGAAGAGCTGAGTTGGCTGCCACCGCTGAGCTGAGCAATAACTAGCATAAACCCCTCTG
CCACCGCTGTGGGGCCTTAACCGGGTCTTTGTGAGGGGTTTTTTGTGTAAGAGGAACTATATCCGAT- (EcoRV) -pBR328.

Fig. 7

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pT7H6 Trip-A-Apo A1 - Amp^R.

PBR328 - (PvuII) -GATCTCGATCCCGCGAAATTAATACGATACACTATAGGAGACCACACGGTTTCCCTCTAGAAATAATTTGTTTAACTTTAAGAAGGAGAT
T7 promoter
M G S H H H H H G S I Q G R S P G T E P P T Q K P K K I V N A K K
ATACATATGGATCGCATCACCATCACGGATCGATCCAGGTAGATCTCTGTGTACGAGCCACCAACCCAGAAAGGATTGTAAATGCCAAGAAA
D V V N T K M F E E L K S R L D T L A Q E V A L L K E Q Q A L Q T V S L
GATGTTGTGAACACAAAGATGTTTGAGGAGCTCAAGAGCCGTCTGGACACCCCTGGCCAGGAGGTGGCCCTGCTGAAGGACGAGCCCTGCAGACGGTCTCCCTG
Bam HI
AAGGATCCGatgaacccccccagagccccctgggagtcgagtgaaggacctggccactgtgtactgtggatgtgctcaagacagcggcagagac
K G S D E P P Q S P W D R V K D L A T V Y V D V L K D S G R D
tatgtgtccagtttgaaggctccgccttgggaaaaacagctaaacctaagctccttgacaaactgggacagcgtgacctccaccttcagcaagctg
Y V S Q F E G S A L G K Q L N L K L L D N W D S V T S T F S K L
cgcaacagctcgccctgtgacccaggttcttgggataaacctgggaaaggagacagagggcctgaggcagagagatgagcaaggatctggaggag
R E Q L G P V T Q E F W D N L E K E T E G L R Q E M S K D L E E
gtgaaggccaaggtgcagccctaccttgacagacttccagaagaagtggcagaggagatggagctctaccgcccagaaggtggagccgctgcgcga
V K A K V Q P Y L D D F Q K K W Q E E M E L Y R Q K V E P L R A
gagctccaagagggcgccagaaagctgcagagctgcaagaagagctgagccactgggcgagagatgcgcgacccgcgcgcgcgcctatgtg
E L Q E G A R Q K L H E L Q E K L S P L G E E M R D R A R A H V
gacgcgtgcgcacgcatctggccccctacagcagcagctgagcgcgcgccttggccgcgccttgaggctctcaaggagaacggcgccagaga
D A L R T H L A P Y S D E L R Q R L A A R L E A L K E N G G A R
ctggccgagtagcagcccaagccagcagcatctgagcacgctcagcagaaggcccaagccgcgcctcgaggacctccgccaaggcctgctgccc
L A E Y H A K A T E H L S T L S E K A K P A L E D L R Q G L L P
gtgctggagagcttcaaggtcagcttctcgagcgcgtctcgaggagtagactaagaagctcaacacccagTAATAAGCTTGAATTCCGATCCGGCTGCTAA
V L E S F K V S F L S A L E E Y T K K L N T Q STOP HindIII EcoRI

CAAAGCCCGAAAGGAGCTGAGTTGGCTGCTGCCACCGCTGAGCTGAGCAATAACTAGCATAAACCCCTCTGTGCCACCGCTGTGGGGCCTCTAAACGGGTCTTGAGGGG
TTTTTTTGCTGAAGAGGAGGAACATATCCGAT - (EcorV) -pBR328.

pT7H6 Trip-A-Apo A1-del43 - Amp^R.

pBR328 - (PvuII) - GATCTCGATCCGCGAAATTATAFAGATACACTATAGGGAGACCACAACGGTTTCCCTCTAGAAAATAATTTTGTTAACTTTAAGAAGGAGAT

T7 promoter
M G S H H H H H G S I Q G R S P G T E P P T Q K P K K I V N A K K
ATACATATGGGATCGCATCACCATCACCATCAGGATCCAGGTAGATCTCTGGTAGCATCCAGGAGCCACCAACCCAGAAGCCCAGAAGATGTAATGCCAAGAAAA

Bgl II Kpn I
D V V N T K M F E E L K S R L D T L A Q E V A L L K E Q Q A L Q T V S L
GATGTTGTGAACACAAAGATGTTTCAGGAGCTCAAGAGCGCTCGACACCCCTGGCCCCAGGAGGTGGCCCTCTGTAAGGAGCAGAGGCCCTGCAGACGGTCTCCCTG

Bam HI
AAGGATCCctaaagtccttgacaaactgggacagcgtgacctccaccttcagcaagtg
K G S L K L L D N W D S V T S T F S K L

cgcgaacagctcgccctgtgaccacaggagttctggataaacctggaaaaggagacagagggccctgaggcaggagatgagcaaggatctggaggag
R E Q L G P V T Q E F W D N L E K E T E G L R Q E M S K D L E E
gtgaaggccaaggtgcagccctacctggacgacttccagaagaagtggcaggaggagatggagctctaccgccagaaggtggagccgctgcgcgca
V K A K V Q P Y L D D F Q K K W Q E E M E L Y R Q K V E P L R A
gagctccaagagggcgcccgccagaagctgcacgagctgcaagagaagctgagcccactgggcgaggagatgcgcgacgcgcgcgcgcccatgtg
E L Q E G A R Q K L H E L Q E K L S P L G E E M R D R A R A H V
gacgcgtgcgcagcatttgccccctacagcagcacgagctgcgccagcgttgccgcgcgccttgaggtctcaaggagaaacggcgccagaga
D A L R T H L A P Y S D E L R Q R L A A R L E A L K E N G G A R
ctggccgagtagccacgcgaagccacccagcagcattctgagcacgctcagcgagaagcccaagccccgcgctcgaggacctccgccaaagccctgtgccc
L A E Y H A K A T E H L S T L S E K A K P A L E D L R Q G L L P
gtgtgtagagcttcaaggtcagcttccctgagcgtctctcgaggagtacactaagaagctcaacacccccagTAATAAGCTTGAATTCGATCCGGTCTCTAA
V L E S F K V S F L S A L E E Y T K K L N T Q STOP HindIII EcoRI

CAAAGCCCGAAAGGAAGCTGAGTTGGCTGCCTGCCACCGCTGAGCTGAGCAATAACTAGCATAACCCCTCTGCCACCGCTGTGGGGCCCTCTAAACGGGTCTTTGAGGGG
TTTTTTGCTCAAAGGAGGAACATATATCCGAT- (EcoRV) - pBR328.

Fig. 9

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PT7 H6Fx Cys-Apo A1

pBR328- (PvuII) - GATCTCGATCCCGGAAATTAAATACGATACACTATAGGAGACCAACAGGTTCCCTCTAGAAATAATTTTGTAACTTTAAGAGGAGATATA

T7 promoter

M G S H H H H H H G S I E G R

CATATGGGATCGCATCACCATCACCATCAGGATCCATCGAGGGTAGG

Nde I

Bam HI

GGTGGATGTgatgaacccccccagagccccctgggatcgagtgaaggacctggccactgtgtacgtggatgtgctcaaaagacagcggcagagac
G G C D E P P Q S P W D R V K D L A T V Y V D V L K D S G R D
tatgtgtccagtttgaaggctccgccttgggaaacagctaaacactcttgacaaactgggacagcgtgacctccaccttcagcaagctg
Y V S Q F E G S A L G K Q L N L K L L D N W D S V T S T F S K L
cggaacagctcggccctgtgacccagaggttctggataacctggaaaaggagacagagggccctgagcgagagatgagcaaggatctggaaggag
R E Q L G P V T Q E F W D N L E K E T E G L R Q E M S K D L E E
gtgaaggccaaggtgcagccctacctggacgacttccagaagaagtggcaggagagatggagctctaccgccagaaggtggagccgctgcgcgca
V K A K V Q P Y L D D F Q K K W Q E E M E L Y R Q K V E P L R A
gagctccaagaggcgccgcagaaagctgcacgagctgcaagagaagctgagcccaactggcgagagagatgcgcgaccgcgcgccccatgtg
E L Q E G A R Q K L H E L Q E K L S P L G E E M R D R A R A H V
gacggtgcaagcatctggccccctacagcagcagctgcccagcgttggccgcgccttggaggtctcaaggagaaacggcgccgcagaga
D A L R T H L A P Y S D E L R Q R L A A R L E A L K E N G G A R
ctggccgagtagtaccacgccaagccacgagcatctgagcacgctcagcgagaagcccgccgctcgaggaacctccgcaaggcctgctgccc
L A E Y H A K A T E H L S T L S E K A K P A L E D L R Q G L L P
gtgctggagagcttcaaggtcagcttccctgagcgtctctcgaggagtagactaagaagctcaacacccagTAAGCATGCAAGCTTGAATTCGGATCC
V L E S F K V S F L S A L E E Y T K K L N T Q STOP SphI HindIII EcoRI

GGCTGTAAACAAAGCCGAAAGGAAGCTGAGTTGGCTGCCTGCCACCGCTGAGCTGAGCAATAACTAGCATAACCCCTCTG

CCACCGCTGTGGGGCCTCTAAACGGGTCTTGAGGGGTTTTTTTGTGTAAGGAGGAACTATATCCGAT- (EcoRV) -pBR328.

Fig. 10a

pT7H6 Trip-A-Apo A1 K9A K15A - Amp^R.

pBR328 - (PvuII) - GATCTCGATCCCGGAAATTAAATACGATACACTATAGGAGAGACCACACGGTTTCCCTCTAGAAATAATTTGTTTAACTTTAAGAGGAGAT
T7 promoter
M G S H H H H H G S I Q G R S P G T E P P T Q K P K A I V N A K A
ATACATATGGGATCGCATCACCATCACCATCAGGATCGATCCAGGGTAGATCTCTCTGGTACCGAGCCACCAACCCAGAGCCCAAGCGGATTGTAAATGCCAAGGCA
Bgl II Kpn I
D V V N T K M F E E L K S R L D T L A Q E V A L L K E Q Q A L Q T V S L
GATGTTGTGAACACAAAGATGTTTGAGGAGCTCAAGAGCGGTCTGGACACCTGGCCAGGAGGTGGCCCTGTGAAGGAGACGACAGGCCCTGCAGACGGTCTCCCTG
Bam HI
AAGGATCCGatgaacccccagagccccctgggatcgagtgaaaggacctggccactgtgtactgtgtgtctcaaaagacagcggcgagagac
K G S D E P P Q S P W D R V K D L A T V Y V D V L K D S G R D
tatgtgtccagtttgaaggctccgccttgggaaaaacagctaaacctaagctccttgacaaactgggacagcgtgacctccaccttcagcaagctg
Y V S Q F E G S A L G K Q L N L K L L D N W D S V T S T F S K L
cgcgaacagctcggccctgtgacccagaggttctgtggataacctggaaaaaggagacagagggccctgaggcaggagatgagcaaggatctggaggag
R E Q L G P V T Q E F W D N L E K E T E G L R Q E M S K D L E E
gtgaaggccaagggtgcagccctacctggacgacttccagaagaagtggcaggagagatggagctctaccgccagaaggtggagcgcgtgcgcgca
V K A K V Q P Y L D D F Q K K W Q E E M E L Y R Q K V E P L R A
gagctccaagagggcgcgcagcagctgcacgagctgcaagagaagctgagccactgggcgaggagatgcgacccgcgcgcgcgcctatgtg
E L Q E G A R Q K L H E L Q E K L S P L G E E M R D R A R A H V
gacgcgtgcgcacgcatctggccccctacagcgcagcagctgcgccagcgttggccgcgccttggagctctcaaggagaaagcggcgccaga
D A L R T H L A P Y S D E L R Q R L A A R L E A L K E N G G A R
ctggccgagtagtaccacgccaagccacgagcatctgagcacgctcagcagagggcccaagcccgctcgcgacccctcccaaggcctgtgccc
L A E Y H A K A T E H L S T L S E K A K P A L E D L R Q G L L P
gtgctggagagcttcaaggctcagcttctcgtgagcgtctctcgaggagtacactaagaagctcaacacccagTAATAAGCTTGAATTCGGATCCGGCTGCTAA
V L E S F K V S F L S A L E E Y T K K L N T Q STOP HindIII EcoRI
CAAAGCCGAAAGGAGCTGAGTTGGCTGCCACCGCTGAGCTGAGCAATACTAGCATAAACCCCTCTGTGCCACCGCTGTGGGGCTCTAAACGGGTCTTGAGGGG
TTTTTTTGTCAAAGGAGGAACATATCCGAT - (EcoRV) - pBR328.

pBR328 - (PvuII) - GATCTCGATCCGCGAAATAATACGATACACTATAGGGAGACCAACACGGTTTCCCTCTAGAAATAATTTGTTTAACTTTAAGAAGGAGAT

T7 promoter

M G S H H H H H H G S G S I Q G R S P G T E P P T Q K P K I V N A
ATACTATATGGATCGCATCACCATCACCGTAGTGGTAGTGATCAATCCAGGGTAGATCTCCTGGTACCGAGCCACCAAGCCCAAGAAAGATTGTAAATGCC
K K D V V N T K M F E E L K S R L D T L A Q E V A L L K E Q Q A L Q T V S L
aAGAAAGATGTTGTGAACACAAAGATGTTTAGGAGCTCAAGAGCCGTCTGGACACCTGGCCAGGAGGTGGCCCTGCTGAAGCAGCAGCAGGCCCTGCAGACGGTCTCCCTG

Bg1 II Kpn I

Bam HI

AAAGGATCtctcggtcatgatgaacccccccagagccccctgggacgcagtgagtgacgtggtacgtggatgctcctcaaaagacacgcggcagagac
K G S s g h D E P P Q S P W D R V K D L A T V Y V D V L K D S G R D
tatgtgtcccgatttgaaggctccgccttgggaaaaacagctaaacctaagctccttgacaaactgggacacgcgtgacctccaccttcagcaagctg
Y V S Q F E G S A L G K Q L N L K L L D N W D S V T S T F S K L
cgcgaaacagctcgccctgtgacccagggattctgggataacctggaaaaggagacagagggccctgaggcaggagatgagcaaggatctggaggag
R E Q L G P V T Q E F W D N L E K E T E G L R Q E M S K D L E E
gtgaaggccaaggtgcagccctacctggacgacttccagaagtggtgcaggagagatggagctctaccgccagaaggtggagccgctgcgcgca
V K A K V Q P Y L D D F Q K K W Q E E M E L Y R Q K V E P L R A
gagctccaagagggcgccgcagagctgcacgagctgcaagagaagctgagcccaactggcgagagagatgcgcgacccgcgcgcgcccatgtg
E L Q E G A R Q K L H E L Q E K L S P L G E E M R D R A R A H V
gacgcgtgcgcacgcatctggccccctacagcgacgagctgcgccagcgttggccgcgccttgaggtctcaaggagaaacggcgcccaaga
D A L R T H L A P Y S D E L R Q R L A A R L E A L K E N G G A R
ctggccgagtagtaccacgccaagggccaccgagcatctgacacgctcagcgagaaggcccaagccccgcgctcgaggacctccgcaaggcctgtgcc
L A E Y H A K A T E H L S T L S E K A K P A L E D L R Q G L L P
gtgctggagagcttcaaggctcagcttccctgagcgctctcgaggtagtacctaaagctcaacacccacagTAATAAGCTTGAATTCGATCCGGCTGTAA
V L E S F K V S F L S A L E E Y T K K L N T Q STOP HindIII EcoRI
CAAAAGCCGAAAGGAAGCTGAGTTGGCTGCCTGCCACCGCTGAGCTAGCAATAACTAGCATAAACCCCTCTGCCACCGCTGTGGGGCCCTCTAAACGGGTCTTGAGGGG
TTTTTTTGCTGAAAGGAGGAAGTAATATCCGAT - (EcoRV) - pBR328.

pT7H6 Trip-A-Fn-Apo A1-final - Amp^R.

pBR328 - (PvuII) - GATCTCGATCCCGGAATTAATACGATACACTATAGGAGACCAACAACGGTTTCCTCTAGAAAATAATTTGTTTAACTTTAAGAAGGAGAT

T7 promoter

M G S H H H H H G S G S I Q G R S P G T E P P T Q K P K K I V N A

ATACATATGGGATCGCATCACCATCACCATACGGTAGTGGTAGTGATCAATCCAGGGTAGATCTCTGTGTACCGAGCCACCAACCCAGAGCCCAAGAAGATTGTAATGCG

Bgl II Kpn I

K K D V V N T K M F E E L K S R L D T L A Q E V A L L K E Q Q A L Q T V S L

aAGAAAGATGTTGTGAACACAAAGATGTTTGAGGAGCTCAAGAGCCGCTGGACACCCCTGGCCAGGAGGTGGCCCTGCTGAAGGAGCAGCAGGCCCTGCAGACGGTCTCCCTG

Bam HI

AAGGAACTctgggtcaggatgaacccccccagagccccctgggacgcagtgaaggacctggccactgtgtacgtggtgtctcaaaagacacgcggcagagac

K G T s g q D E P P Q S P W D R V K D L A T V Y V D V L K D S G R D

tatgtgtcccagtttgaaggctccgccttgggaaaaacagctaaacctaaagctccttgacaaactgggacagcgtgacctccaccttcagcaagctg

Y V S Q F E G S A L G K Q L N L K L L D N W D S V T S T F S K L

cgcgaacagctcggccctgtgacccaggagttctggataacctggaaaaggagacagagggccctgaggcaggagatgagcaaggatctggaggag

R E Q L G P V T Q E F W D N L E K E T E G L R Q E M S K D L E E

gtgaaggccaaaggtgcagccctacctggacgaactccagaagaagtggcaggaggagatggagctctaccgccagaaggtggagcgcgtgcgcgcga

V K A K V Q P Y L D D F Q K K W Q E E M E L Y R Q K V E P L R A

gagctccaagagggcgcgccagaagctgcaagagctgcaagagaagctgagccacctgggcgaggagatgcgcgaccgcgcgcgcccatgtg

E L Q E G A R Q K L H E L Q E K L S P L G E E M R D R A R A H V

gacgcgtgcgcacgcatctgccccctacagcgacgagctgcgccagcgttggccgcgccttgaggtctcgaaggagaacgcgcgcgcaga

D A L R T H L A P Y S D E L R Q R L A A R L E A L K E N G G A R

ctggccgagtagccacgcgaaggccacgagcatctgagcagctcagcgagaaggccacgcgcgtcgaggacctcgccaaaggccctgctgccc

L A E Y H A K A T E H L S T L S E K A K P A L E D L R Q G L L P

gtgctggagagcttcaaggtcagcttccctgagcgcctctcagggagtacactaagaagctcaacacccagTAATAAGCTTGAATTCGATCCGGCTGCTAA

V L E S F K V S F L S A L E E Y T K K L N T Q STOP HindIII EcoRI

CAAGGCCGAAAGGAAGCTGAGTTGGCTGCCACCGCTGAGCTGAGCAATAACTAGCATAACCCCTCTGCCACCGCTGTGGGGCCCTCTAAACGGGTCTTGAGGGG

TTTTTTTGTGTAAGGAGGAACCTATATCCGAT - (EcoRV) - pBR328.

pBR328 - (PvuII) - GATCTCGATCCCGCGAAATTAAATACGATACATATAGGGAGACCACAACGGTTTCCCTCTAGAAAATAATTTGTTTAACTTTAAGAACGGAGAT

T7 promoter

M G S H H H H H G S G S I Q G R S P G T E P P T Q K P K A I V N A
ATACATATGGGATCGCATCACCATCACCATACGGTAGTGGTAGTGGATCAATCCAGGGTAGATCTCTCTGGTACCGAGCCACCACCCAGAACGCCGATGTGTAATGCC

Bgl II Kpn I

K A D V V N T K M F E E L K S R L D T L A Q E V A L L K E Q Q A L Q T V S L
AAGGCAGATGTTGTGAACACAAAGATGTTTGAGGAGCTCAAGAGCCGTCTGGACACCCTGGCCCCAGGAGGTGGCCCTGCTGAAGGACGAGCAGGCCCTGCAGACGGTCTCCCTG

Bam HI

AAGGAACCTCGgggtcaggatgaacccccccagagccccctgggacgcagtgaaaggacctggccactgtgtacgtggatgtgtcctcaaaagacagcggcagagac
K G T s g q D E P P Q S P W D R V K D L A T V Y V D V L K D S G R D
tatgtgtccagtttgaaggctccgccttgggaaaaacagctaaacctaaagctccttgacaaactgggacagcgtgacctccaccttcagcaagctg
Y V S Q F E G S A L G K Q L N L K L L D N W D S V T S T F S K L
cggaacagctcggccctgtgacccaggagtctctggataacctggaaaaggagacagggccctgagcgaggagatgagcaaggatctggaggag
R E Q L G P V T Q E F W D N L E K E T E G L R Q E M S K D L E E
gtgaaggccaaaggtgcagccctacctggacgacttccagaagaagtggcagaggagatggagctctaccgccagaaggtggagccgtgcgcga
V K A K V Q P Y L D D F Q K K W Q E E M E L Y R Q K V E P L R A
gagctccaagagggcgcgccagaagctgcacgagctgcaagagaagctgagcccactggcgaggagatgcgcgaccgcgcgcgccccatgtg
E L Q E G A R Q K L H E L Q E K L S P L G E E M R D R A R A H V
gagcgcgtgcgcacgcatctggccccctacagcgacgagctgcgccagccttggccgcgccttgaggctctcaaggagaacggcgccgacga
D A L R T H L A P Y S D E L R Q R L A A R L E A L K E N G G A R
ctggccgagtagtaccacgccaagggccaccgagcatctgagcacgctcagcgagaaggccaagcccgctcgaggacctcgcgcaaggcctgtgccc
L A E Y H A K A T E H L S T L S E K A K P A L E D L R Q G L L P
gtgtcggagagcttcaaggctcctgagcgtctcgcaggagtacactaagaagctcaacacccagTAATAAGTTGAATTCGCATCCGGTCTGCTAA
V L E S F K V S F L S A L E E Y T K K L N T Q STOP HindIII EcoRI
CAAGCCGAAAGGAAGTGAGTTGGCTGCGCTGCCACCGCTGAGCTGAGCAATAACTAGCATAAACCCCTCTGCCACCGCTGTGGGGCCTCTAAACGGGTCTTGAGGGG
TTTTTTTGCTGAAAGGAGGAACATATCCGAT - (EcoRV) - pBR328.

pBR328 - (PvuII) - GATCTCGATCCCGGAAATTAATACGATACACTATAGGGAGACCAACACGGTTTCCCTCTAGAAAATAATTTGTTTAACTTTAAGAAAGGAGAT

T7 promoter

M G S H H H H H G S G S I Q G R S P G T E P P T Q K P K K I V N A

ATACATATGGGATCGCATACCATCACCATCACGGTAGTGGTAGTGATCAATCCAGGTAGATCTCTCTGGTACCGAGCCACCACCCAGCAAGCCCAAGAAAGATTGTAATGCC

K K D V V N T K M F E E L K S R L D T L A Q E V A L L K E Q Q A L Q T V S L

aAGAAAGATGTTGTGAACACAAAAGATGTTTGAGGAGCTCAAGAGCCGCTGGACACCCCTGGCCAGGAGGTGGCCCTGCTGAAGGAGCAGCAGGCCCTGCAGACGGTCTCCCTG

Bam HI

AAGGATCCAAAGGTGCATCAAGGAacccccccagagcccctgggatcgagtgaaggacctggccactgtgtacgtggatgtgctcaaaagacagcggc

K G S K V H M K D E P P Q S P W D R V K D L A T V Y V D V L K D S G

agagactatgtgtcccagtttgaaggctccgcttgggaaaaacagctaaacctaagctccttgacaaactgggacagcgtgacctccaccttcagcaagctg

R D Y V S Q F E G S A L G K Q L N L K L L D N W D S V T S T F S K L

cgcgaacagctcggccctgtgacccagaggttctggataacctggaaaaggagacagagggcctgaggcaggagatgagcaaggatctggaggag

R E Q L G P V T Q E F W D N L E K E T E G L R Q E M S K D L E E

gtgaaggccaaaggtgcagccctacctggaagactccagaagaagtggcaggaggatggagctctaccgcccaagaaggtggagccgctgcgcgca

V K A K V Q P Y L D D F Q K K W Q E E M E L Y R Q K V E P L R A

gagctccaagagggcgccgcccagaagctgcaagagctgcaagagaagctgagcccaactgggcgaggagatgcgcgacccgcgcgcgccccatgtg

E L Q E G A R Q K L H E L Q E K L S P L G E E M R D R A R A H V

gacgcgtgcgcacgcatctggccctctacagcagagctgcgccagcgttggccgcgccttgaggctctcaaggagaacggcgccaga

D A L R T H L A P Y S D E L R Q R L A A R L E A L K E N G G A R

ctggccgagtagcaccgcaaggccacgagcatctgagcagctcagcgagaaggcccaagccgcgctcagggacctcgcccaaggccctgtgcc

L A E Y H A K A T E H L S T L S E K A K P A L E D L R Q G L L P

gtgtggagagcttcaaggtcagcttctgagcgtctctgaggagtagactaagaagctcaacacccagTAATAAGCTTGAATTCGATCCGGCTGCTAA

V L E S F K V S F L S A L E E Y T K K L N T Q STOP HindIII EcoRI

CAAAGCCGAAAGGAAGCTGAGTTGGCTGCCTGCCACCGCTGAGCTGAGCAATAACTAGCATAAACCCCTCTGCCACCGCTGTGGGCGCTCTAAACGGGTCTTGAGGGG

TTTTTTTGTGTAAGGAGGAACATATATCCGAT- (EcoRV) - pBR328.

pBR328 - (PvuII) - GATCTCGATCCCGCGAAATTAATACGATACACTATAGGAGACCAACACGGTTTCCCTCTAGAAATAAATTTGTTTAACTTTAAGACGAGAT

T⁷ promoter

M G S H H H H H G S G S I Q G R S P G T E P P T Q K P K K I V N A
ATAATATGGGATCGCATACCATCACCATACCGTAGTGGTAGTGCATCAATCCAGGGTAGATCTCCTGGTACCGAGCCACCACCCAGAAAGCCCAAGAAAGATTGTAAATGCC
K K D V V V N T K M F E E L K S R L D T L A Q E V A L L K E Q Q A L Q T V S L
aAGAAAGATGTTGTGAACACAAAAGATGTTTGAGGAGCTCAAGAGCCGCTTGACACCCCTGGCCAGGAGGTGGCCCTGCTGAAGGACGACGAGGCCCTGCAGACGGTCTCCCTG

Bam HI

AAGGGAACCAAGGTGCATGAAGgaacccccccagagccctgggacgtgagtgaaaggacctggccactgtgtacgtggatgtgtcctcaaaagacagcggc
K G T K V H M K D E P P Q S P W D R V K D L A T V Y V D V L K D S G

Bgl II Kpn I

agagactatgtgtccagtttgaaggctcgccttgggaaaaacagctaaccctaaagctccttgacaaactgggacagcgtgacctccaccttcagcaagctg
R D Y V S Q F E G S A L G K Q L N L K L L D N W D S V T S T F S K L
cgcaacagctcggccctgtgacccagagttctgggataacctggaaaaaggagacagagggccctgagcgaggagatgagcaaggatctggaggag
R E Q L G P V T Q E F W D N L E K E T E G L R Q E M S K D L E E
gtgaaggccaaaggtgcagccctacctggacgacttcagaagaagtggcaggaggagatggagctctaccgccagaaaggtggagccgctgcgcgca
V K A K V Q P Y L D D F Q K K W Q E E M E L Y R Q K V E P L R A
gagctccaagagggcgcgccagagctgcagagctgcaagaagtgcagagctggccactggcgaggagatgcgcgacccgcgcgcgcccatgtg
E L Q E G A R Q K L H E L Q E K L S P L G E E M R D R A R A H V
gacgcgctgcgcacgcatctggccccctacagcgacgctgcgccagcgttggccgcgccttgaggtctcaaggagaacggcgccagca
D A L R T H L A P Y S D E L R Q R L A A R L E A L K E N G G A R
ctggccgagtagtaccacgccaaggccaccgagcatctgagcagctcagcgagaaggccaagcccgctcgctcgaggaacctccgcaaggcctgtgcc
L A E Y H A K A T E H L S T L S E K A K P A L E D L R Q G L L P
gtgtggagagcttcaaggtcagcttccctgagcgtctcagaggtagtacctcaagaagctcaacacccagTAATAAGCTTTAAATTCGATCCGGCTGCTAA
V L E S F K V S F L S A L E E Y T K K L N T Q STOP HindIII EcorI

CAAAAGCCGAAAAGGAAGCTGAGTTGGCTGCTGCCACCGCTGAGCTGAGCAATAACTAGCATAAACCCCTCTGCCACCGCTGTGGGGCCCTCTAAACGGGTCTTGAGGGG
TTTTTTGCTGAAAGGAGGAACCTATATCCGAT - (EcorV) - pBR328.

Fig. 10g

18/23

pT⁷H6 Trip-A-Tn-Apo A1 final K9AK15A- Amp^R.

pBR328- (PvuII) - GATCTCGATCCCGGAAATTAATACGATACACTATAGGAGACCAACAGGTTTCCCTCTAGAAAATAATTTGTTTAACTTAAGAAGGAGAT
T7 promoter
M G S H H H H H G S G S G S I Q G R S P G T E P P T Q K P K A I V N A
ATACATATGGGATCGCATCACCATCACCGGTAGTGGTAGTGATCAATCCAGGGTAGATCTCTGGTAGATCTCTGGTAGATCCAGGACCAACCCAGAGCCCAAGCGGATGTAAATGCC
Bgl II Kpn I
K A D V V N T K M F E E L K S R L D T L A Q E V A L L K E Q Q A L Q T V S L
AAGGCAGATGTTGTGAACACAAAGATGTTGAGGAGCTCAAGAGCGGTCTGGACACCCCTGGCCAGGAGGTGGCCCTGCTGAAGGAGCAGAGGCCCTGCAGACGGTCTCCCTG
Bam HI
AAGGGAACCAAGGTGCACATGAAGGAACCCCCAGAGCCCTGGGATGAGTGAAGGACCTGGCCACTGTGTACGTGGATGTGTCTCAAGACAGCGT
K G T K V H M K D E P P Q S P W D R V K D L A T V Y V D V L K D S G
agagactatgtgtcccagtttgaaggctccgccttgggaaacacagctaaacctaaagctccttgacaaactgggacagcgtgacacctccaccttcagcaagctg
R D Y V S Q F E G S A L G K Q L N L K L L D N W D S V T S T F S K L
cggaacagctcggccctgtgacccaggttctgggataacctggaaaaggagacagagggcctgagggcagagatgagcaaggatctggaggag
R E Q L G P V T Q E F W D N L E K E T E G L R Q E M S K D L E E
gtgaaggccaaggtgcagccctacctggacgacttccagaagaagtggcagggagagatggagcttaccgcccaagaaggtggagccgctgcgcga
V K A K V Q P Y L D D F Q K K W Q E E M E L Y R Q K V E P L R A
gagctccaagagggcgccgagagctgcacgagctgcaagagaagctgagccactgggagagagatgcgcgacccgcgcgcgcgcctatgtg
E L Q E G A R Q K L H E L Q E K L S P L G E E M R D R A R A H V
gacgcgtgcgcacgcatctggccctacagcgacgagctgcgccagcgttggccgcgccttgaggtctcaaggagagaacggcgccaga
D A L R T H L A P Y S D E L R Q R L A A R L E A L K E N G G A R
ctggccagtagtaccacgccaaggccacgagcatctgagcagctcagcgagaaggcccaagccgcgcctcgaggtacccccaagcctgctgccc
L A E Y H A K A T E H L S T L S E K A K P A L E D L R Q G L L P
gtgtggagagcttcaaggtcagcttctcgtgagcgctctcgaggagtacactaagaagctcaacacccagTAATAAGCTTGAATTCGGATCCGGCTGCTAA
V L E S F K V S F L S A L E E Y T K K L N T Q STOP HindIII EcoRI
CAAAGCCGAAAGGAGCTGAGTTGGCTGCTGCCACCGCTCTGCCACCGCTGTGGGGCCTCTAAACGGGTCTTGAGGGG
TTTTTTGCTGAACGAGGAACATATCCGAT- (EcoRV) -pBR328.

pT7H6 Hp-alpha-Apo A1 - Amp^R.

pBR328 - (PvuII) - GATCTCGATCCCGCGAAATTAAATACGATACACTATAGGGAGACCAACACGGTTTCCCTAGAAAAATAATTTTGTTAACCTTTAAGAACGAGAT

T7 promoter

M G S H H H H H G S I Q G R G V D S G N D V T D I A D D G C P K P P E
ATACATATGGGATCGCATCACCATCACCATCAGGATCGATCCAGGTAGAGGTgtggaactcaggcaatgatgtcacggatatcgcagatgacggctgccgaagccccccgag
attgcacatggctatgtggagcactcggttcgtaccagttaagaactactacaaactcgcacagaaggagatggagtatacaccttaaacatgagaagcag
I A H G Y V E H S V R Y Q C K N Y Y K L R T E G D G V Y T L N N E K Q
tgataaataaaggctgttgagataaaacttcctgaatgtgaagcagtagtgggaagcccaagaatccggcaaacccagtcagAGATCC
W I N K A V G D K L P E C E A V A G K P K N P A N P V Q R S
gatgaacccccagagccctgggatcgagtgaaggacctggccactgtgtactgtgtgtctcaagacagcggcagagac
D E P P Q S P W D R V K D L A T V Y V D V L K D S G R D
tatgtgtcccgattgaaggctccgcttgggaaaaacagctaaacctcttgacaaactgggacagcgtgacctccacctcagcaagctg
Y V S Q F E G S A L G K Q L N L K L L D N W D S V T S T F S K L
cgcgaacagctcggccctgtgacccaggagttctgggataacctggaaaaaggagacagagggcctgagcaggagatgagcaaggatctggaggag
R E Q L G P V T Q E F W D N L E K E T E G L R Q E M S K D L E E
gtgaaggccaaggtgcagccctacctggaagcacttcacagaagaagtggcaggaggatggagctctaccgccagaaggtggagccgctgcgcgca
V K A K V Q P Y L D D F Q K K W Q E E M E L Y R Q K V E P L R A
gagctccaagagggcgccgcagaaagtgcacgagctgcaagagaagctgagccactggcgaggagatgcgcaccgcgcgccccatgtg
E L Q E G A R Q K L H E L Q E K L S P L G E E M R D R A R A H V
gacgcgctgcgcacgcatctgtggccctacagcagagctgcgccagcgttggccgcgccttgaggtctcgaaggagaacggcgccgaga
D A L R T H L A P Y S D E L R Q R L A A R L E A L K E N G A R
ctggccgagtaccacgcaagggccacgagcatctgagcagctcagcgagaagggccagccgcgctcaggaacctccgcaagccctgtgccc
L A E Y H A K A T E H L S T L S E K A K P A L E D L R Q G L L P
gtgtggagagcttcaaggtcagcttccgtgagcgtctcgtgaggagtacactaagaagctcaacacccagTAATAAGCTTGAATTCGGATCCGGCTGCTAA
V L E S F K V S F L S A L E E Y T K K L N T Q STOP HindIII EcoRI

CAAGCGCGAAAGGAAGCTAGTTGGCTGCCGTCACCGCTGAGCTGAGCAATAACTAGCATAAACCCCTCTGCCACCGCTGTGGGGCCTCTAAACGGGCTCTGAGGGG
TTTTTTTCTGCTGAAAGGAGAACTATATCCGAT - (EcoRV) - pBR328.

Fig. 11

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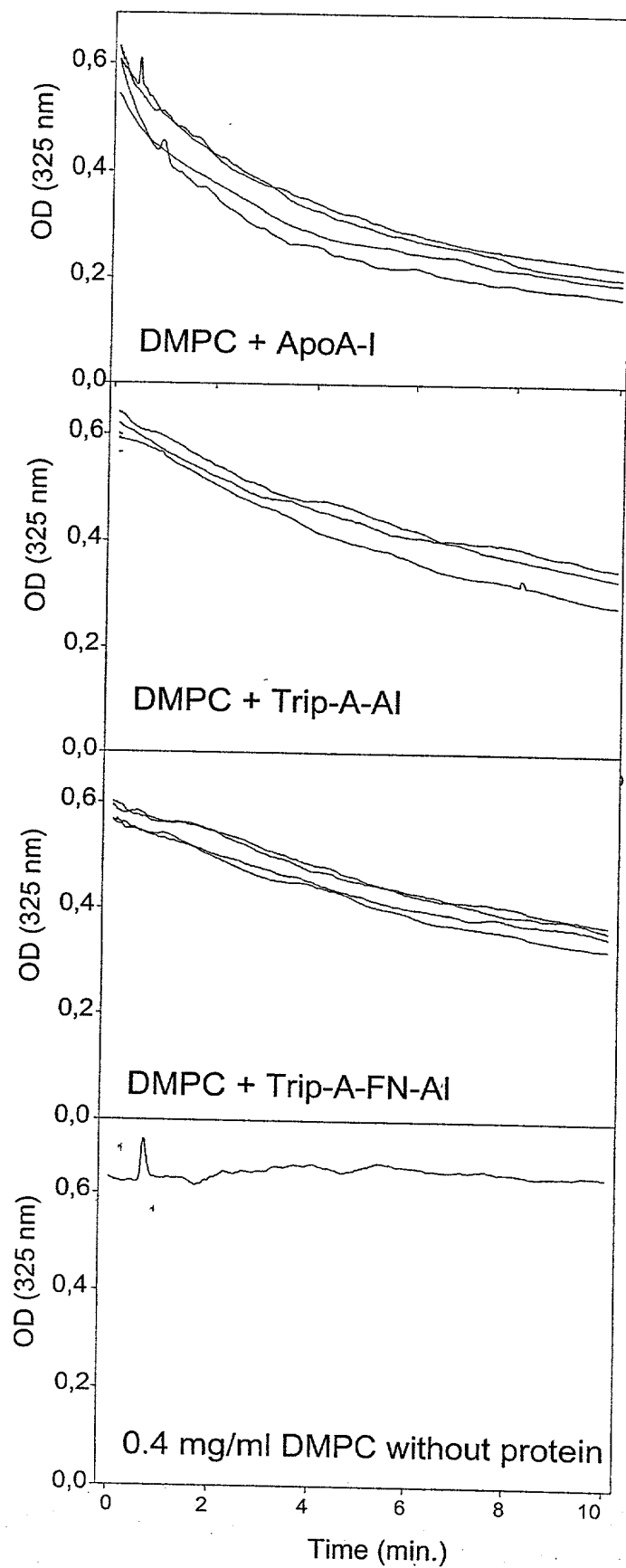


Fig. 12

Binding of apo A-I and Trip-A-AI to immobilised cubilin

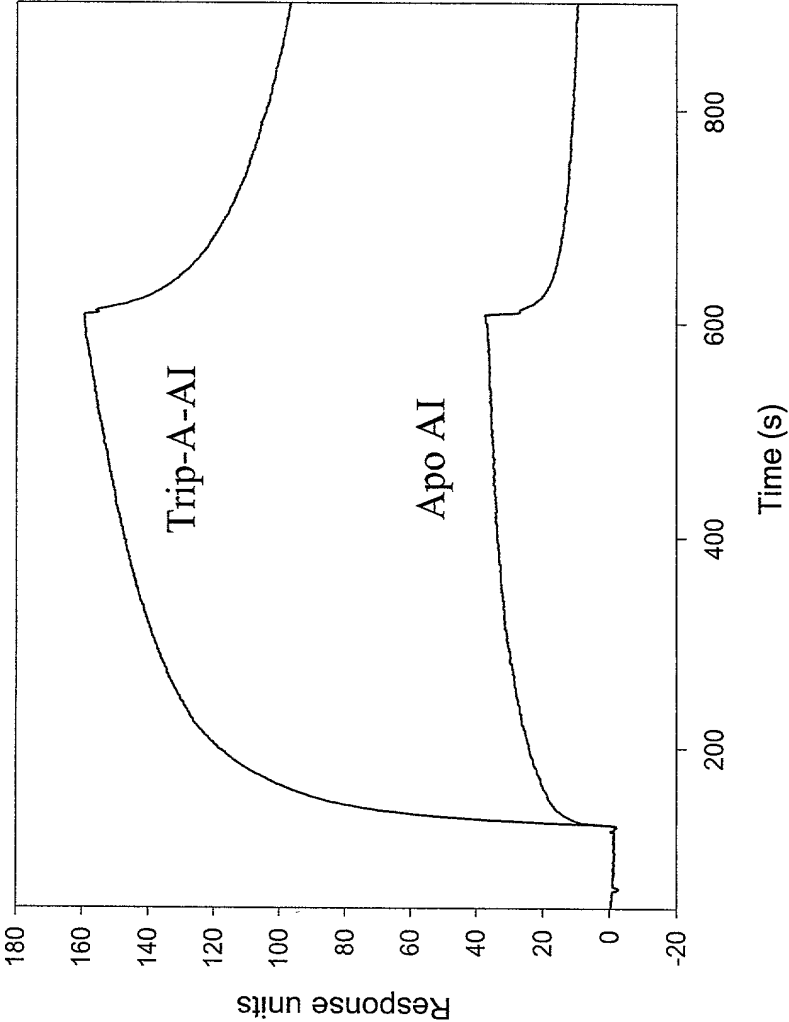


Fig. 13

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Superdex 200 analysis of apolipoprotein A-I derivatives

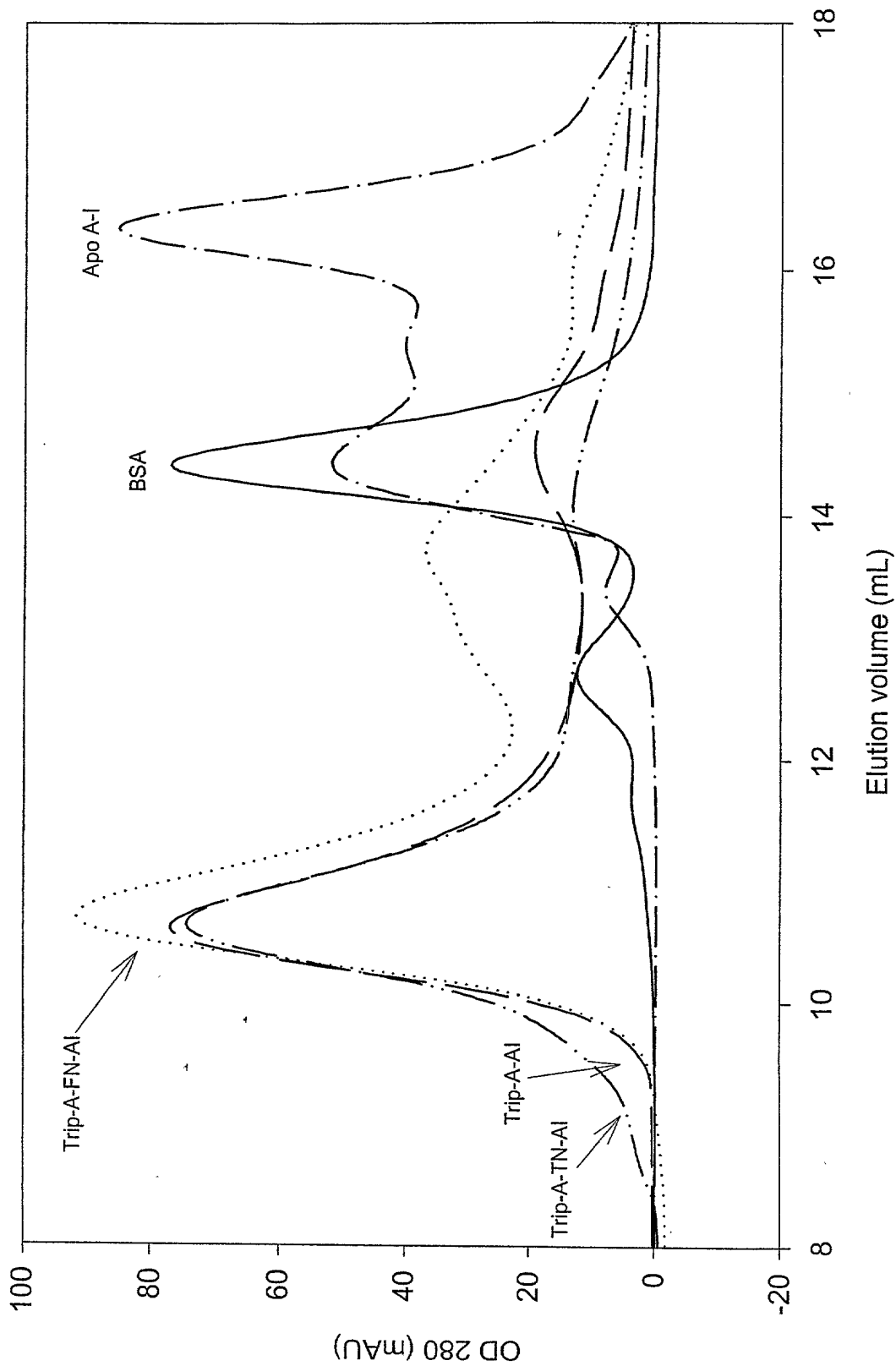


Fig. 14

Comparison of the plasma concentration of
Trip-A-A-I and Apo A-I over a 2 days period after
injection of 1 mg, mean of five mice

